

**BY ORDER OF THE
SECRETARY OF THE AIR FORCE**

AIR FORCE INSTRUCTION 36-2217

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**AIR FORCE RESERVE COMMAND
Supplement 1**

1 December 2000

Personnel

**MUNITIONS REQUIREMENTS FOR AIRCREW
TRAINING**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements the procedures for determining aircrew test and training munitions requirements. This instruction is to be reviewed on a bi-annual basis. Maintain and dispose of records created as a result of prescribed processes in accordance with AFMAN 37-139, *Records Disposition Schedule*.

(AFRC) The OPR for this supplement is HQ AFRC/DOTT. This supplement implements and extends the guidance of Air Force Instruction (AFI) 36-2217, *Munitions Requirements for Aircrew Training*, 1 November 2000. The AFI is published word-for-word without editorial review. Air Force Reserve supplementary material is indicated by “(AFRC)” in boldface type. This supplement describes Air Force Reserve Command (AFRC) procedures to be used in conjunction with the basic instruction. Upon receipt of this integrated supplement discard the Air Force Basic.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

Establishes policy for allocating Category C (captive carry) training munitions. Formula for calculating Category D (training) munitions requirements revised. All references to Graduated Combat Capability (GCC) levels eliminated, replaced by the Ready Aircrew Program (RAP). Establishes policy for units to provide parent Major Command (MAJCOM) their annual requirements. Establishes policy for allocation of all test and training munitions. Requires test unit's project munitions requirements concurrently with the Future Years Defense Plan (FYDP). Incorporates expenditure threshold for Out of Cycle (OOC) requests. Updates expenditure report format. Establishes annual suspense. Adds examples of munitions requirement's formulas in three appendixes. Sets update requirement to bi-annual. Establishes RAP Forecasting Tool (RaFT) as the mechanism to determine aircrew training munitions requirements.

Chapter 1

AIRCREW MUNITIONS ALLOCATION AUTHORIZATIONS

Section 1A—Aircrew Munitions Allocation Authorizations

1.1. Overview: Aircrew members expend munitions during training, operational readiness inspections, weapons competitions, exercises, tests, or demonstrations. Logistics agencies manage overall munitions in accordance with AFI 21-201, 21-202, and 21-208. Operational agencies will assist by verifying the requirement and providing operational expertise. Attachment 1 defines munitions allocation categories.

1.2. Forecasting Aircrew Munitions Requirements: The goal is to forecast the necessary quantities of munitions to accomplish flying test and training. Units will supply data to support RaFT requirements as requested by the MAJCOM. MAJCOMs will consolidate their unit requirements and forward to OO-ALC/WM and HQ USAF/XORW by 1 March.

1.3. (Added-AFRC) The AFRC DO and LG FAMs are required to attend the Munition Working group (October), Tactical Air Missile Program (April) conference, and the Munition Allocation Conference (May) each year. The FAMs are required to provide feedback to the units on these meetings.

Chapter 2

AIRCREW TRAINING MUNITIONS

Section 2A—Category C Aircrew Captive Training Munitions

2.1. Category C Aircrew Captive Training Munitions: are used for practice attacks with air-to-surface training munitions that emulate weapons switchology and attack profiles. MAJCOMs will determine unit requirements and allocations based on anticipated wartime tasking. The following are authorized load factors for operational units:

2.1.1. TGM-65: A/OA-10s units are authorized 1.5 TGMs per primary aircraft authorized (PAA). F-16/F-15E units are authorized 0.5 TGMs per PAA.

2.1.1.1. (Added-AFRC) AFRC A-10 units are authorized the following mix of TGM-65s - 8 x Gs / 8 x Ds / 7 As and Bs.

2.1.1.2. (Added-AFRC) AFRC F-16 units are authorized the following mix of TGM-65s - 4 x Gs / 4 x Ds.

2.1.2. CATM-88 HARM: 0.5 CATMs per PAA.

2.1.3. AIM-9/ AIM-7: 1.0 CATM per PAA

2.1.3.1. (Added-AFRC) AFRC A-10 units are authorized 8 x CATM -9M-9 / 4 x CATM 9M-1.

2.1.3.2. (Added-AFRC) AFRC F-16 units are authorized 12 x CATM -9M-9 / 3 x CATM 9M-1.

2.1.4. AIM-120: 1.0 CATM per PAA (1.5 for F-15A/C units)

2.1.5. AGM-142/AGM-130/GBU-15/EGBU-15: Allocation will be centrally managed by ACC.

2.1.6. LAU-131 Rocket Launcher: A/OA-10 units are authorized 2.25 LAU-131s per PAA. F-16 units are authorized 0.5 LAU-131s per PAA (NOTE: Only for units with FAC-A tasking).

2.1.6. (AFRC) (Note: Only for units with FAC-A/CSAR tasking).

2.1.7. SUU-25 Illumination Flare launcher: A/OA-10 units are authorized 1.5 SUU-25s per PAA. F-16 units are authorized 1.0 SUU-25 per PAA (NOTE: Only for units with FAC-A tasking).

2.1.7. (AFRC) (Note: Only for units with FAC-A/Night CAS/CSAR tasking)

2.1.8. Future weapons load factors (JASSM/JSOW/JDAM, etc) will be added as training requirements are determined.

2.1.9. Test units are authorized a number equal to 0.5 per PAA for the TGM-65 and CATM-88. All other Category C aircrew captive training munitions are IAW the above guidelines.

2.1.10. Formal training units are authorized captive training munitions IAW paragraph 2.1 to fulfill requirements delineated in their MAJCOM approved syllabi.

2.1.11. (Added-AFRC) AFRC F-16 units are authorized 1.0 Acceleration Monitoring Assemblies per PMAI.

Section 2B—Category D Aircrew Training Munitions

2.2. Category D Aircrew Training Munitions: are expended on flying training sorties. Munitions quantities are based on flying training sorties/events as set by the parent MAJCOM, MAJCOM approved syllabus training, Operational Readiness Inspections (ORIs), select exercise/competitions, and special demonstrations.

2.2. (AFRC) Unit Operational Group Commanders (OG/CC) track munitions expenditures to make every effort possible for achieving the 90 percent expenditure goal. The OG/CC reviews unit allocations to determine if any adjustments are necessary for attainment of the 90 percent goal. Submit adjustment requests to NAF/DO munitions FAM for consideration and action. Unit OG/CC also implements procedures and controlling devices to ensure expenditure rates remain within approved allocation limits.

2.2.1. Training munition requirements are calculated using the Air Force RAP Forecasting Tool (RaFT). HQ USAF/XORW will provide MAJCOMs with individual copies of the RaFT program and the user's manual NLT 15 October of each year.

2.2.2. The Air Force RaFT program allows for the rapid consolidation of MAJCOM training munitions requirements into a single reference document. This consolidated source directly supports munitions allocation decisions that are made in conjunction with actual inventory availability. RaFT can also illustrate the potential impact on training munitions as a result of force structure adjustments.

2.2.3. The program is designed to determine the number of any given training item based on the number of assigned aircraft (normally PAA), the aircrew ratio for that specific aircraft, and a series of training events. Training events are described in terms of number of annual events per aircrew and the number of required items needed to be expended to constitute an event. Flight Training Unit (FTU) and Weapons School (WS) requirements are derived based on the number of students per course, and the number of items required to complete the syllabus events, to include direct support requirements.

2.2.3. (AFRC) Additional munitions are not authorized for Red Flags, Air Warriors, or most deployments and exercises. During these deployments/exercises, aircrews are completing normal training events at an alternate location.

2.2.4. For effective training, some munitions training events may require more than one expenditure per event. When expenditures per event are not defined by appropriate training guidance, the individual RaFT tables will be the source utilized, and thus drive the requirement.

2.2.5. Units that are not governed by RAP will use aircraft specific volume 1 training instructions and Air Force Catalog (AFCAT) 21-209 to identify Category D training requirements.

2.2.6. Additional munitions are authorized for ORIs, selected exercises/competitions, or certain special demonstrations. The office of primary responsibility (OPR) will forecast and send their requirements to the MAJCOM for approval and submission to OO-ALC/WM and HQ USAF/XORW. OPRs are the MAJCOM Inspector General, and the appropriate exercise/competition OPRs. These OPRs are responsible for transferring munitions allocations to the tasked units.

2.2.7. (Added-AFRC) Different types of munitions can be utilized to satisfy a single training event (i.e. M-82s, M-84s, or CBU-87s, etc. for full-scale weapons deliveries; different versions of 2.75 rockets, different versions of chaff, etc.). For these munitions, AFRC is required to identify the desired percentage of each specific weapon type. 10AF unit representatives will establish these percentages during the fall Combat Planning Council. The HQ AFRC/DO munitions FAM will ensure these percentages are inputs into the RAFT document.

Section 2C—Category E Aircrew Testing Munitions

2.3. Category E Aircrew Testing Munitions: are expended in support of Developmental Test and Evaluation (DT&E), Operational Test and Evaluation (OT&E), and Tactics Development and Evaluation (TD&E), as well as other test projects such as the Weapons System Evaluation Program (WSEP). Each test project officer must forecast the munitions needed for each test and request munitions through the proper logistic or operational munitions personnel. Test munitions should be identified by a specific test plan, and test project officers should forecast munitions requirements by Complete Round Codes (CRC) whenever possible. If it is necessary to submit requirements by National Stock Number (NSN), test project officers must provide intended component usage. Test munitions requirements will be projected concurrently with the FYDP in accordance with suspenses outlined in paragraph **3.1**.

2.3.1. Category E forecasts may include “spin-up” requirements to maintain aircrew proficiency throughout the fiscal year. However, back-to-back tests using the same munitions should not require two sets of spin-up munitions. Category E spin-up requirements will be identified separately from actual test requirements.

Section 2D—Category N

2.4. Category N: munitions are foreign military training support requirements and are computed using RaFT.

2.5. (Added-AFRC) HQ AFRC Director of Operations (DO) and Logistics (LG) Functional Area Managers (FAM) will utilize:

2.5.1. (Added-AFRC) Unit Type Code Taskings and AFCAT 21-209 to determine category B requirements.

2.5.2. (Added-AFRC) Planned wartime and contingency aircraft configuration load-out (Flyaway requirements excluding bombers) to arm deploying aircraft for determining Category F requirements.

2.5.3. (Added-AFRC) Operational taskings and AFCAT 21-209 to determine Category C requirements for daily arming of personnel such as Security Forces, Couriers, munitions loaders moving nuclear weapons.

2.5.4. (Added-AFRC) The Unit Committed Munitions List for operational units and the training syllabus for FTUs to determine loading and munitions Category C training assets for unit weapons loaders.

Chapter 3

REPORTING REQUIREMENTS

Section 3A—Reporting Requirements

3.1. Reporting Requirements. Munitions are managed on a fiscal year (FY) basis and require several reports. Use of Complete Round Code (CRC) nomenclature for aircrew munitions is mandatory. Use a national stock number (NSN) or DoD identification code (DODIC) only when a CRC is not applicable or available.

3.2. Suspenses

15 Nov	Unit RaFT inputs IAW Appendix 1 to MAJCOM
1 Jan	MAJCOMs provide munitions requirements to AF/XORW
1 Mar	USAF/XORW provides munitions forecast to OO-ALC/MW
1 May	Allocation Conference
1 Jun	MAJCOMs notified of draft allocations
1 Aug	MAJCOMs receive final allocations
1 Oct	MAJCOM allocations to units

3.2.1. (Added-AFRC) AFRC LG FAM will send unit allocations to the respective supporting command and base Munitions Accountable Systems Officers (MASO) by 15 August.

3.2.2. (Added-AFRC) AFRC Base MASOs will provide allocations to the unit DO munition FAM 1 Sep and load this information into the base Combat Ammunition System by 1 Oct.

3.3. Each unit will notify their MAJCOM of quarterly expenditures. Expenditure totals will be coordinated between unit operations and logistics personnel before submission. Allocations will reflect Out of Cycle (OOC) adjustments. Expenditure data release authority is the unit Operations Group Commander or equivalent.

3.3. (AFRC) By 1 September each AFRC unit DO/LG munitions FAM will be provided an HQ AFRC/ DOTT developed Excel spreadsheet which they are required to utilize when submitting their quarterly and yearly munitions expenditures. Unit level OG/CC or their designated representative will submit the expenditure report concurrently to the HQ AFRC DO/LG and NAF DO/LG munition FAMs.

3.3.1. Expenditure notifications are due from the units to their MAJCOMs within 14 days after the end of each FY quarter.

3.3.2. The yearly expenditure input must include justification if the total expenditure is less than 90 percent of allocation for the year. Include any requisition, supply, munitions restrictions, or any other problems affecting expenditures.

3.3.3. Off-station expenditures must be included in munitions expenditure inputs. For example, if a unit transfers an allocation to Nellis AFB for Weapons School support, the munitions expended by the deployed unit while at Nellis must be included in the expenditure input. Do not report expenditures for units from other MAJCOMs operating at an installation on a temporary basis.

3.3.4. As a minimum, inputs will include the following information in column format:

CRC or NSN/DODIC

The munition's nomenclature

Total munitions allocation. This should remain constant, except when the MAJCOM or unit receives an OOC allocation change. Do not change this allocation in cases of allocation transfer to support deployed aircraft.

Break down expenditures by quarter, total allocations remaining, and percent of allocation expended.

3.3.4.1. (Added-AFRC) Justification for low expenditure utilization. The second and fourth quarter expenditure reports must include justification if the expenditure percent of the total allocation is less than 30 percent for the second quarter, or less than 90 percent in the fourth quarter.

Chapter 4

CHANGING ALLOCATIONS

4.1. Out Of Cycle (OOC) Requests. The vehicle for changing annual allocations is an OOC request. Units will send an OOC request (with appropriate justification) to the MAJCOM. OOC requests submitted before an operational unit expends 70 percent of their current allocation will normally be denied. If the MAJCOM has not received the previous quarterly and yearly expenditure reports, the OOC will not be processed. Release authority for OOC request is the Operations Group Commander or equivalent. If the request for allocation increase exceeds the MAJCOMs allocation (for that specific item) the MAJCOM must validate and send the OOC request to USAF/XORW.

Appendix 2: Munitions Category Definitions

4.2. (Added-AFRC) Request: to move munitions, transfer allocations, or one to support an OOC allocation for a deployment or exercise are required to be coordinated with your MASO and submitted for consideration to the Numbered Air Force (NAF) DO munitions FAM within 120 days for a CONUS and 180 days for an overseas deployment. The NAF DO FAM will attempt to satisfy the request through unit allocation realignments. When the NAF DO FAM cannot satisfy the request, they will send the completely justified request to HQ AFRC DO FAM for consideration and action.

4.3. (Added-AFRC) When a request requires HQ AFRC coordination for the movement of munitions for a deployment or exercise, by no means, will the headquarters, NAF, or unit FAMs initiate any action without a submission of the deployment to the Deployment Review Board in accordance with AFRCI 10-204, *Air Force Reserve Exercise and Deployment Program*.

4.4. (Added-AFRC) Request: to move munitions, transfer allocations, or one to support an OOC allocation will include:

4.4.1. (Added-AFRC) Operations Group Commander or equivalent signature.

4.4.2. (Added-AFRC) CRC, DODIC, or Nomenclature

4.4.3. (Added-AFRC) Current allocation of the item requested.

4.4.4. (Added-AFRC) Quantity of movement or transfer requested.

4.4.5. (Added-AFRC) Complete, detailed justification for the allocation change to include an explanation of why the current allocation cannot meet the unit's need.

4.4.6. (Added-AFRC) Specifically what, if any substitute items can be used if primary requested items are not approved.

4.4.7. (Added-AFRC) Other pertinent information to include mission impact if the additional allocation is not approved.

4.4.8. (Added-AFRC) Approved request will be submitted to the MASO for action.

4.5. (Added-AFRC) Base MASOs will:

4.5.1. (Added-AFRC) Be permitted to transfer allocations, without headquarters approval, to support unit deployments or exercises.

4.5.2. (Added-AFRC) Be permitted to realign allocations, with AFRC MAJCOM LG FAM approval, to another MAJCOM.

4.5.3. (Added-AFRC) Be permitted to realign allocations belonging to the same parent command provided both parties agree to the transfer.

4.5.4. (Added-AFRC) Provide a report to the HQ AFRC and NAF DO and LG FAMs, OO-ALC/WM, and applicable base MASOs notifying them of the transfer.

4.5.5. (Added-AFRC) Coordinate and submit all allocation transfers to receiving base MASO.

4.5.6. (Added-AFRC) Adjust applicable records in Combat Ammunition System to reflect allocation changes.

ROBERT H. FOGLESONG, Lt General, USAF
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Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFI 21-201, *Inspection, Storage, and Maintenance of Non-Nuclear Munitions*, 5 Feb 1998

AFI 21-202, *Combat Ammunition Systems Procedures*, 1 July 1995

Abbreviations and Acronyms

AFCAT—Air Force Catalogue

AGM—Air (to) Ground Missile

AIM—Air Intercept Missile

CATM—Captive Air Training Missile

CRC—Complete Round Code

DODIC—Dept. of Defense Identification Code

EGBU—Enhanced Guided Bomb Unit

FAC-A—Forward Air Control-Airborne

FTU—Flight Training Unit

FY —Fiscal Year

FYDP—Fiscal Year Defense Plan

IAW —In Accordance With

JASSM —Joint Air-to-Surface Standoff Missile

JDAM —Joint Direct Attack Munition

JSOW—Joint Stand Off Munition

MAJCOM—Major Command

NLT—No Later Than

NSN—National Stock Number

OOC—Out Of Cycle

ORI—Operational Readiness Inspection

OT&E—Operational Test and Evaluation

PAA —Primary Assigned Aircraft

RaFT—RAP Forecasting Tool

RAP—Ready Aircrew Program

TD&E—Test Development and Evaluation

TGM—Training Guided Missile

WS—Weapon School

WSEP—Weapon System Evaluation Program

Munitions Categories—See Attachment 2

Attachment 2**MUNITIONS REQUIREMENT CATEGORIES**

Category A - Assets required to replace worn out or damaged assets based on historical failure data. This category also includes replacement items installed in survival equipment (rafts, vests, seat-kits and para-rescue kits installed on aircraft)

Category B - Ground munitions WRM levels not computed by USAF/XORW in the Non-Nuclear Consumables Annual Analysis process. They are munitions and explosives that are not part of an aircraft weapon system and include munitions and explosives to be deployed from a home base for mobility, unit relocation or augmentation, and prepositioned munitions for incoming forces and necessary.

Category C - Non-consumable assets that include items for Training Guided Missiles managed by OO-ALC/WM, rocket and flare dispensers, specific Air Force Specialty Code (AFSC) or weapon system, Operational Test and Evaluation (OT&E), classroom training daily peacetime arming for security purposes (i.e. security forces, OSI couriers, nuclear convoys, etc.)

Category D - Peacetime consumable assets to support aircrew and ground training, Bird Abatement Strike Hazard, airdrops, exercises (including ORIs), approved firepower demonstrations, Honor-Guard ceremonies, AFSC related shooting competition (Security forces, medical, civil engineering, communications and finance), missile (smoky-sams),

Category E - Consumable munitions expended for Initial Operational Test and Evaluation (OT&E), Development Test and Evaluation (DT&E), Weapons Systems Evaluation Program (WSEP), Follow-on-Operational Test, Evaluation (FOT&E), Qualification Operation Test and Evaluation (QOT&E), Seek Eagle testing and special projects to support new weapon systems.

Category F - Planned wartime and contingency aircraft configuration load-out (Flyaway requirements excluding bombers) to arm deploying aircraft.

Category G - Non-Nuclear Consumable Annual Analysis (computer model) to compute air-to-ground wartime requirements. The Tactical Air Missile Program (TAMP) computes air-to-air wartime requirements.

Category M - Afloat prepositioned Fleet requirements identified by USAF/XORW.

Category N - Foreign Military Training Support munitions which allow MAJCOMs to identify munitions necessary to train aircrew or ground personnel from other countries. Affected MAJCOMs will submit requirements to USAF/XORW and OO-ALC/WM.

Category P - PACER FLEX residual identified munitions which are in excess of allocated quantities.

Category Z - Standard Air Munitions Package (STAMP) requirements identified by USAF/XORW to OO-AC/WM.